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APPLICATION NO.	FILIN	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/790,656	03/0	01/2004	Chirag D. Dalal	VRT0126US	9561
60429 CSA LLP	7590	05/07/2007		EXAMINER	
4807 SPICEWO		INGS RD.	LI, ZHUO H		
	LDG. 4, SUITE 201 USTIN, TX 78759			ART UNIT	PAPER NUMBER
				2185	
				MAIL DATE	DELIVERY MODE
			•	05/07/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	•	Application No.	Applicant(s)			
	•	10/790,656	DALAL ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Zhuo H. Li	2185			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address			
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAnsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be to will apply and will expire SIX (6) MONTHS fror cause the application to become ABANDON	N. imely filed on the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 06 Fe	ebruary 2007.				
2a)⊠	This action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.			
Dispositi	on of Claims		·			
4)⊠ 5)□ 6)⊠ 7)□	Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) 1-21 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Applicati	on Papers		· ·			
9)	The specification is objected to by the Examine	г.	· :			
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)	Replacement drawing sheet(s) including the correction. The oath or declaration is objected to by the Ex	•				
Priority L	ınder 35 U.S.C. § 119		•			
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Applica ity documents have been receiv i (PCT Rule 17.2(a)).	tion No ved in this National Stage			
* See the attached detailed Office action for a list of the certified copies not received.						
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Attachmen	t(s) e of References Cited (PTO-892)	4) 🔲 Interview Summar	W/DTO 442)			
2) Notice 3) Information	te of References Cited (PTO-692) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:	Date			

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DETAILED ACTION

Response to Remarks

1. This Office action is in response to the remarks filed 2/22/2007.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-5, 8-16 and 19-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Russell (US PAT. 6,826,600).

Regarding claim 1, Russell discloses a method comprising a computer system (100, figure 1) creating a first storage object (150, figure 1), wherein the first storage object is created to have a property (col. 10 lines 58-61 and col. 14 lines 13-18, i.e., a client computer system operating software to generate local object definitions and object property 152 being a local object identification that identifies the local object definitions), the computer system creating a second storage object out of the first storage object, wherein the second storage object depends on the property of the first storage object (col. 11 lines 2-10 and col. 14 lines 29-54, i.e., a sever creating a global object specification corresponding local object definitions), and the computer

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system modifying the first storage object, wherein the modified first storage object maintains the property upon which the second storage object depends (col. 11 lines 10-24, col. 14 lines 55-62 and col. 15 lines 16-22, i.e., providing new global object specification object definitions to the client and replacing the local object specification with the new global object specification).

Regarding claim 2, Russell discloses the computer system creating a third storage object, wherein the third storage object is created to have a property (col. 19 lines 28-56, i.e., creating a new object specification once a collaboration session is underway), wherein the computer system creates the second storage object out of the first and third storage object, wherein the second storage object depends on the properties of the first and third objects (col. 20 lines 1-62, i.e., server 130 creating a new object definitions, read as third storage object, within the global object identification, read as second storage object based on the command or other instruction from client such that the new object definition includes a new unique global object definition and any object properties specified in the object operation are also included as object properties).

Regarding claim 3, Russell teaches the steps of creating the first storage object comprising creating a first description of the first object and transmitting all or a portion of the first description to a first computing system (col. 10 line 58 through col. 11 line 2), and creating the second storage object comprising creating a second description of the first storage object and transmitting all or a portion of the second description to a second computer system (col. 11 lines 2-12).

Regarding claim 4, Russell teaches the step of modifying the first storage object comprising creating a modified first description of the modified first storage object and transmitting the modified first description to the first computer system (col. 11 lines 13-24).

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Regarding claim 5, Russell teaches the second description comprising a configuration map that maps a local memory block of the second storage object to a logical memory block of the first storage object (col. 18 lines 1-11).

Regarding claim 8, Russell discloses a method comprising a computer system (100, figure 1) creating a first storage object (150, figure 1), wherein the first storage object is created to have a individual or collective properties (col. 10 lines 58-61 and col. 14 lines 13-18, i.e., a client computer system operating software to generate local object definitions and object property 152 being a local object identification that identifies the local object definitions), the computer system creating a second storage object out of the first storage object, wherein the second storage object depends on the individual or collective properties of the first storage object (col. 11 lines 2-10 and col. 14 lines 29-54, i.e., a sever creating a global object specification corresponding local object definitions), and the computer system receiving information that the property of a storage object of the one or more first storage objects has changed and that the second object can no longer depend on the individual or collective properties of the one or more first storage object (col. 11 lines 10-24, col. 18 lines 12-16, i.e., determining that the local in global object specifications do not contain corresponding object definitions), the computer system responding after receiving the information (col. 18 lines 16-21, i.e., providing an indication that it did not map the local object specification to the global object specification).

Regarding claim 9, Russell discloses the computer responding comprising generating a message indicating that warning that the second storage object con no longer depend on the individual or collective properties of the one or more storage object (col. 18 lines 16-21).

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Regarding claims 10-11, Russell discloses the computer responding comprising replacing the storage object with a new storage object, which modifies the storage object (col. 18 lines 22-39).

Regarding claim 12, the limitations of the claim are rejected as the same reasons as set forth in claim 1.

Regarding claim 13, the limitations of the claim are rejected as the same reasons as set forth in claim 2.

Regarding claim 14, the limitations of the claim are rejected as the same reasons as set forth in claim 3.

Regarding claim 15, the limitations of the claim are rejected as the same reasons as set forth in claim 4.

Regarding claim 16, the limitations of the claim are rejected as the same reasons as set forth in claim 5.

Regarding claims 19-21, the limitations of the claims are rejected as the same reasons as set forth in claim 1.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 6-7 and 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Russell (US PAT. 6,826,600) in view of Furuhashi et al. (US 2003/0229698 hereinafter Furuhashi).

Regarding claims 6-7, Russell differs from the claimed invention in not specifically teaching creating the first storage object comprising allocating a logical unit or a physical storage device of a data storage subsystem to the first storage object, wherein the first description comprises a configuration map that maps a logical memory block of the first storage object to a logical memory block of the logical unit or to a physical memory block of the physical storage device. However, Furuhashi teaches information processing system having data storage area allocating unit (224, figure 1), read as a logical unit, for mapping a logical memory block of a first storage object to a logical memory block of the logical unit ([0045], i.e., allocating unit specifies a position of a storage area to which the data is stored in respond of read kind or utilization purpose on the bases of characteristic information of the memory device) in order to improve the access performance to data and its reliability in a technique of allocating data to a plurality of storage areas of a storage. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Russell in creating the first storage object comprising allocating a logical unit or a physical storage device of a data storage subsystem to the first storage object, wherein the first description comprises a configuration map that maps a logical memory block of the first storage object to a logical memory block of the logical unit or to a physical memory block of the physical storage device, as per teaching of Furuhashi, in order to improve the access performance to data and its reliability in the technique of allocating the data to the plurality of storage areas of the storage.

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Regarding claims 17-18, the limitations of the claims are rejected as the same reasons as set forth in claims 6-7.

Response to Arguments

6. Applicant's arguments filed 2/22/2007 have been fully considered but they are not persuasive.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., the computer system modifying the first storage object, wherein the modified first storage object maintains the property upon which the second storage object depends) are clearly recited in Russell. It is noted that Russell teaches to create a global object specification (read as second storage object) based on a local object specification (read as a first storage object) created by a client (col. 11 lines 2-6) and then to return the global object specification to the client such that the client replaces the local object specification with the global object specification (col. 11 lines 10-24, read as modifying the first storage object). Note Russell teaches the modification or replacement of the local object specification (i.e., the first storage object) with the global object specification (i.e., the second object) such the new replaced local object specification maintains the property upon which the global storage object depends because the client is requested to compare the global object specification to the local object specification to determine whether the server properly created the global object specification based on the local object specification (col. 11 lines 10-24). In addition, the claimed language fails to clearly define how the modified first storage object Art Unit: 2185

maintains the property upon which the second storage object depends. Thus, Russell teaches the unduly broad claimed limitations as recited in claim 1.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., the computer system receiving information that the property of a storage object of the one or more first storage objects has changed and that the second storage object can no longer depend on the individual or collective properties of the one or more first storage object) are clearly recited in Russell. It is noted that Russell teaches the modification or replacement of the local object specification (i.e., the first storage object) with the global object specification (i.e., the second object) such the new replaced local object specification maintains the property upon which the global storage object depend because the client is requested to compare the global object specification to the local object specification to determine whether the server properly created the global object specification based on the local object specification (col. 11 lines 10-24), wherein the global object specification can no longer depend upon local object identification when they are not properly map with each other(col. 18 lines 12-21). Note the claimed language fails to clearly define how the second storage object can no longer depend on the individual or collective properties of the one or more first storage objects. Thus, Russell teaches the unduly broad claimed limitations as recited in claim 8.

For at least these reasons, Examiner maintained the rejection of claims 12, 19, 20 and 21. Claims 2-5, 9-11 and 13-16 are, respectively, dependent upon rejected independent claims 1, 8 and 12 such that they are still being rejected under 35 U.S.C. 102 by Russell. In addition, claims

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6-7 and 17-18 are stand rejected under 35 U.S.C. 103(a) because they are dependent upon rejected claims 1 and 12, respectively.

Conclusion

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zhuo H. Li whose telephone number is 571-272-4183. The examiner can normally be reached on Tues - Fri 9:00am - 6:30pm and alternate Monday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sanjiv Shah, can be reached on 571-272-4098. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Zhuo H. Li

Patent Examiner

April 14, 2007

SANJIV SHAH
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100